

Agenda of the 17th IPSSC				
Day 1 (28th May)				
Time	Activity	Presenting	Title	
8.00-9.00			Registration	
9.00-09.30			Welcome speech + Prof. Dr. Milena Horvat	
09.30-10.15	Presentation session 1	1 Blaž Bohinc 2 Melanija Hadolin 3 Anilán Lobato 4 Neža Sodnik 5 Lara Ropić Bizjak 6 Ivan Konjević 7 Mitja Koderman	Building photosynthetic biofilms in biophotocatalytic systems Electrochemical sensor for detection of benzotriazole in water MXene-Modified Impedimetric Genosensor for Sensitive Detection of Hop Pathogen Stabilization Strategies for Prussian Blue Electrodes in Polyamine Sensing Applications Development of Analytical Method for Determination of Chemical Exposure Biomarkers in Hair Electrochemical Analysis of the Influence of Surface-Active Substance on Surface Tension and Gas-to-Particle Mass Transfer Ruthenium-Doped Titanium Oxynitride-Based Immunosensor for the Sensitive Detection of Prostate-Specific Antigen (PSA)	
10.15-11.00			Talk: "Portable Electrochemical Sensors" - Assist. Prof. Dr. Kristina Žagar Soderžnik, JSI	
11.00-11.30			Poster session with a coffee break	
11.30-12.15	Presentation session 1	8 Laura Martinčič 9 Lea Gašparič 10 Nejc Šuban 11 Žiga Bertalančič 12 Janina Roknič 13 Žan Zakošek 14 Ana Koblar	2D Materials and their Application for Supercapacitors Exploring the activity of TiON supported ruthenium nanoparticles for the hydrogen evolution reaction Investigation of the piezoelectric properties of ceramic powders using piezo-response force microscopy Fabrication of solid oxide fuel cells Polarization Mapping in Potassium Sodium Niobate by 4D STEM, Multi-Slice Simulations, and First-Principles Calculations Elucidating mysteries from the CuBr – HBr – DABCO system Corrosion of 3D printed aluminium alloy AlSi10Mg	
12.15-14.15			Lunch	
14.15-15.00	Presentation session 1	15 Cathrine Terro 16 Zala Sel 17 Brina Pavlovič 18 Neža Kralj 19 Zhang Lin 20 Jan Jeričević 21 Matic Rutnik	Integrating Stable Isotope Profiling, Multi-Elemental Analysis, and Statistical Modeling for Saffron Origin Authentication and Traceability Edible Oils from Synthesis to Waste: A Stable Isotope Approach GC-MSD and GC-C-IRMS for Fatty Acid Profiling: Assessing Quality Differences Between Wild and Farmed Seabream The Role of Water-Insoluble Organic Carbon (WIOC) in Atmospheric Particles and Its Impact on Climate Atomistic modeling of cobalt borides as catalyst materials for water electrolysis Improving Robot Cloth Unfolding with Basic Motion Heuristics Optimization of an energy supply and storage system in residential buildings using a genetic algorithm	
15.00-15.30			Poster session with a coffee break	
15.30-16.15	Presentation session 1	22 Katarina Tomić 23 Nadja Nolte 24 Miroslav Strbac 25 Neža Praček 26 Marko Marohnič 27 Mohammad Nausad 28 Pia Leban	Functionalized Erythrocyte Vesicles for Targeted Breast Cancer Therapy Allele-Specific Expression Analysis in Tetraploid Potato Reveals Stress-Induced Transcript Switching Under Heat Conditions Use of 50Cr(VI) and 53Cr(III) isotopic tracers in chromium speciation in mineral materials Monitoring of avian influenza viruses in environmental waters Characterization of a novel plant virus found in irrigation water samples Using Honey Bees and Their Products to asses Environmental Pollution by HRMS-based Techniques Fate of polystyrene nanoplastics and potentially toxic elements in hydroponically grown tomato plants	
16.15-20.00			Dinner + Free time	
20.00-			Social activities	

Day 2 (29th May)				
Time	Activity	Presenting	Title	
7.30-9.00			Breakfast	
9.00-9.15			Gathering of participants	
9.15-10.00	Presentation session 2	29 Olha Sanko 30 Zoja Anžur 31 Rok Cek 32 Erik Calcina 33 Boštjan Gec 34 Jure Fitčar	A Novel Polymorph of VOF3: Structural Characterisation and Synthesis A Multimodal Approach to Predicting Cognitive Load Product Quality Explorer - determining product quality based on the digital product passport Fine-Tuning Large Language Models for Medical Information Extraction from Hospital Records Discovery of exact equations via computing Gröbner basis Reducing User Interaction Through Modular Platform Design: Enhancing Usability and Security	
10.00-10.45			Talk: "Exploring a Scientist's Role in Innovation and Entrepreneurship" - Dr. Luka Suhadolnik, National Institute of Chemistry and Quipnex	
10.45-11.15			Poster session with a coffee break	
11.15-12.00	Presentation session 2	35 Juš Polanšek 36 Jan Šifrer 37 Job Petrovčič 38 Nina Omejc 39 Peter Nimac 40 Vladimir Chizhevskiy 41 Ilija Srpak	Development of a Low-Cost Ionic Wind Propulsion System Using Built-in Sensors to Detect Environmental Contact in Collaborative Robots Sequential DAG Generation Exploring Electroencephalographic (EEG) Models of Brain Activity using Automated Modelling Techniques Unfolding the challenge: Robotic Solution to Autonomously Unfold Crumpled Garments Autogenerated database of High entropy alloys A novel PIMD method for the simulation of spin-phonon coupled systems	
12.00-12.45			Talk: "Featured solutions for Advanced battery science, Life Sciences, Analytical Chemistry, and Chromatography" - mag. Nadja Kern Prezelj, Territory Sales Manager, Avantor Slovenia	
12.45-14.00			Lunch	
14.00-14.45	Presentation session 2	42 Jošt Tručl 43 Pia Marinček 44 Andrii Hultiaiev 45 Ivana Podlipnik 46 Aleksander Učakar 47 Nina Kovač	Preparation of magnetic Janus nanoplatelets Metrological approaches for biofilm identification on solar panels Copper chloride-N-alkyl triethylenediamine compounds in composition space diagram Modeling the earliest stage of aluminum oxidation with kinetic Monte Carlo Numerical Simulations of Pressureless Spark Plasma Sintered (pSPS) Strontium Hexaferrite Fluorinated Siloxane-Silica Hybrid Sol-Gel Coatings for Long-Term Corrosion Protection of AA2024-T3	
14.45 - 15.30			Talk: "Young Entrepreneurship" - mag. Luka Radičević (Institute for Economic Research) and mag. Neja Bizjak Štrus (Biotechnical Faculty), Young Academy of Slovenia	
15.30-16.00			Poster session with a coffee break	
16.00-16.45			DFT-based bonding analysis of thiadiazoles on Cu(111) Novel Polyethylene Glycol Acrylate - Based Ceramic Slurries for Digital Light Processing Natural killer cells against glioblastoma: inspecting the battle in a 3D model of glioblastoma Oxide thin film as a protection of photocathode from photocorrosion in water splitting Fractional topological charges in 2D nematic liquid crystal	
16.45-19.30			Dinner + Free time	
19.30-			Maister brewery tour (Optional)	

Day 3 (30th May)				
Time	Activity	Presenting	Title	
7.30-9.00			Breakfast	
9.00-9.15			Gathering of participants	
09.15-10.00			Talk: "Genotoxic Nitrosamines in Drug Products - Safety Implications, Formation Mechanisms and Analytical Strategies" - Dr. Rok Grahek, Lek	
10.00-10.45	Presentation session 3	53 Bruno Kovač 54 Mikhail Kleimenov 55 Maria Alejandra Rubio 56 Janko Stankič 57 Viktorija Kukharuk 58 Tomaž Mržjak 59 Anja Pavlovič	Quantifying the Seasonal Influence of Building Air Infiltration on Indoor and Outdoor PM2.5 Distributions Air pollution by Polycyclic Aromatic Hydrocarbons (PAHs) in Europe and Slovenia: A Modelling Approach Urban Cycling Lab: citizen science protocol to assess and reduce cyclists' exposure to environmental stressors Lifestyle, geospatial and genetic factors impacting urinary metabolites of polycyclic aromatic hydrocarbon in Slovene children Synthesis and characterization of monomeric [PhC(NiBu)2]SiCl with Selenium and Tellurium Synthesis and Characterization of Coordination Compounds [M(XeF2)n](RuF6)2 (M = Cu, Ni) Immunomodulatory and Toxic Effects of Aluminium Fluoride Complexes on Macrophages	
10.45-11.15			Poster session with a coffee break	
11.15-12.00			Talk: "Metals Under the Microscope: Connecting Fundamental Research with Real-World Impact" - Dr. Barbara Šetina Batič, IMT	
12.00-12.45	Presentation session 3	60 Kristjan Gašpirc 61 Sana Shaukat 62 Lucija Drempečič 63 Maja Caf 64 Subhashis Rooj 65 Katja Drobež	Spatial Structuring of Microbial Communities for Bioelectrogenically Stimulated Pollutant Degradation Optimizing SPS conditions to enhance texture retention and magnetic properties of bulk Nd-Fe-B magnets Magnetic Attraction Meets Elastic Action: Optimizing Magnetoactive Elastomer Composites Breaking through biofilms: non-specific bacterial targeting with bactericidal nanoblades Hydrothermal transformation of Aurivillius Bi4Ti3O12 platelets into two-dimensional ATiO3 (A=Sr,Ba,Ca) perovskites Influence of the functionalization on the chemical stability of barium hexaferrite nanoplatelets	
12.45-13.15			Poster session with a coffee break	
13.15-14.00			Round table with MPŠ Alumni club (Dr. Ana Oberlinner, Dr. Nina Kuzmič, and Dr. Rok Novak)	
14.00-15.00			Closing Remarks and Awards Ceremony with special participation of Prof. Dr. Aleksander Zidanšek	